Atlona Mini VGA Extender with Audio

AT-VGA180AS
AT-VGA180AR

User Manual

One-Port Mini Transmitter : AT-VGA180AS
One-Port Mini Receiver : AT-VGA180AR

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Package Contents

1. AT-VGA180ASR x 1
(sender AT-VGA180AS and receiver AT-VGA180AR units)
2. M-F VGA cable x 1
3. M-F VGA adapter x 1
4. Universal Power Adapter x 1
5. User manual x 1

Introduction

AT-VGA180ASR is the smallest AV Extender in the industry; the main body is as big as a VGA connector and able to transmit VGA + Audio by a single Cat5e cable up to 180m. With its simplified design, you can install the extender very easily and save space. You can use it to broadcast AV signal from PC, KVM switch, matrix AV switcher and applied in the device extension of projector, plasma TV, LCD TV, LCD monitor, HDTV, and CRT. It can also be integrated with splitter and selector to fulfill different AV application.

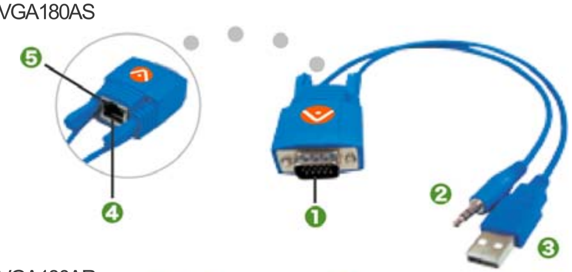
Key Features

1. This system can send VGA and Audio signal from Transmitter by Cat5/5e/6 cable, and broadcast to Receiver. The standard maximum broadcasting distance is 180m
2. Compact design with VGA and Audio transmit function
3. Maximum supported distance and resolution: 2048x1536@180m
4. Use Cat5 Enhance UTP cable (350MHz bandwidth) for better quality
5. Software free, pure hardware design, support Plug & Play
6. Support VGA, SVGA, XGA, TFT_LCD, LCD TV, PDP, Projector with DDC2B function

7. Transmitter and Receiver build with LEDs to indicate system status
8. Transmitter takes DC5V power from USB port
9. Receiver build in EQ to adjust image quality

Panel Description

AT-VGA180AS



AT-VGA180AR



1 To VGA Output
2 To Audio Output
3 To USB Power(DC5V)
4 Rj-45 System Link
5 V&H Sync Activity
Blinking : No signal LED ON : Active
6 Video Focus
7 Power Jack
8 To Monitor
9 To Speaker

/ Installation and Operation

1. AT-VGA180AS Single-Port Transmitter Installation:

(1) Connecting Transmitter: Take AT-VGA180AS and connect uvw to computer's VGA, Audio and USB port. The Transmitter will take the DC5V power from computer's USB port and if your computer or VGA player doesn't have USB port, please prepare optional power adaptor with a USB power output to supply the power.



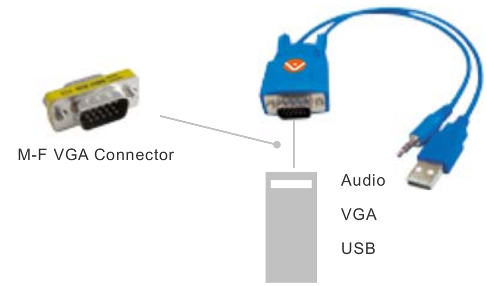
Installation Diagram of System Transmitter AT-VGA180AS



Optional Power Adaptor with a USB 5VDC power output

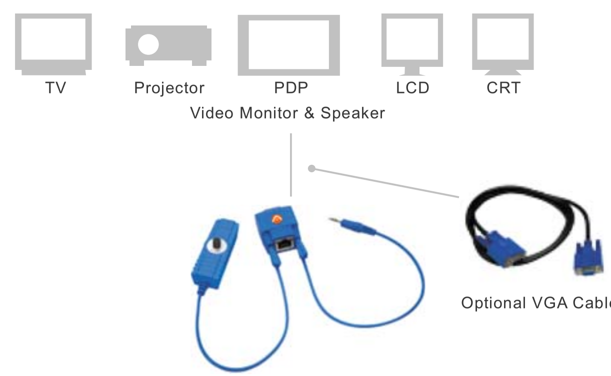
(2) Function Test: Turn on your PC or VGA player, the LED of Transmitter will blink before VGA signal is turned ON and remain ON after VGA signal is turned ON.

(3) Some PC might have tight space to connect AT-VGA180AS to VGA port, you may take one short male-female VGA connector to connect in between AT-VGA180AS and VGA output port.

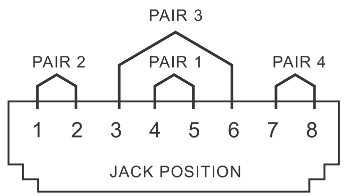


2. Receiver AT-VGA180AR installation and UTP Connection

(1) Power Up: Plug power adapter to the Receiver and connect to monitor and speaker. The LED above RJ-45 port should blink to indicate the unconnected status of AV signal.
You can also use a short VGA cable (in the package) to connect in between Receiver and monitor and place the receiver in other place.

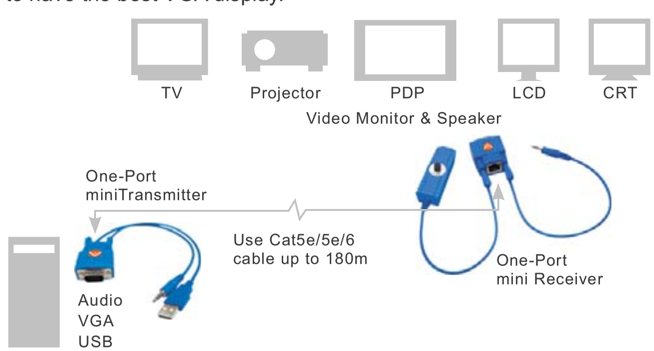


(2) Selection of UTP Cable: For best VGA resolution, please use Cat5 Enhanced cable (350MHz bandwidth), the maximum extended length of one section (one pair of Transmitter or Receiver) should not exceed 180 meters. The connector must be made by 568B/568B type.



The EIA/TIA defination of 568B in the pin assignment is
(1) orange white, (2) orange, (3) green white, (4) blue,
(5) blue white, (6) green, (7) brown white, and (8) brown

(3) Connect UTP Cable: Plug two ends of UTP cable to Transmitter and Receiver's RJ45 SYSTEM LINK ports, the monitor and speaker connected to Receiver should work now and the LEDs above RJ-45 port should remain ON. You can adjust the FOCUS control of Receiver to have the best VGA display.



Installation Diagram of Receiver AT-VGA180AR

(4) Function Test: After above installation, you will be able to broadcast the AV signal to Receiver's connected monitor and speaker.

(5) Problem and Solving: If you find unstable image or audio problems after installation, please confirm following list or contact your direct vendor for further assistance:

a. Check if PC's VGA resolution and frequency over the limit of monitor display, if so, please change the VGA configuration from Windows Control panel.

b. Try to connect Monitor and speaker directly to a PC, and ensure the basic function of these devices.

c. When using LCD or same type monitor, there might have some image offset or blinking, please adjust the position, clock or phase of the LCD monitor, or simply press Auto Adjust / Tune to have a better image solution.

3. Other Integration and Application:

Please contact your local dealer or distributor for further information.

Specification

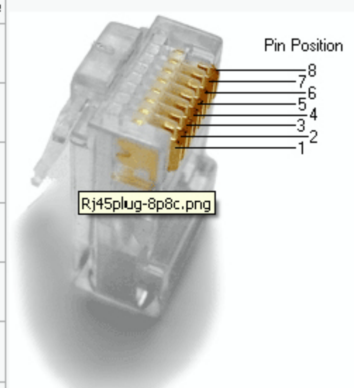
Model	AT-VGA180AS	AT-VGA180AR
Description	Super Mini AV Transmitter	Super Mini AV Receiver
AV Input	VGA x 1, Audio x 1	RJ45 x 1
AV Output	RJ45 x 1	VGA x 1, Audio Mono x 1
Video CTRL	-	Video EQ
LED	Power and Video Status	
Video Quality	Maximum VGA Resolution and Distance : 2048x1536@180m	
Power Consumption	USB DC5V Power, 200mA	AC7.5V, 250mA
Environmental Condition	* Operation Temp.: 0~50 * Storage Temp.: -20~60 degree C * Humidity: 10~90%	

T568A and T568B Wiring

T568B RECOMMENDED FOR ALL SOLUTIONS

Pin	T568A Pair	T568B Pair	Wire	T568A Color	T568B Color
1	3	2	tip	white/green stripe	white/orange stripe
2	3	2	ring	green solid	orange solid
3	2	3	tip	white/orange stripe	white/green stripe
4	1	1	ring	blue solid	blue solid
5	1	1	tip	white/blue stripe	white/blue stripe
6	2	3	ring	orange solid	green solid
7	4	4	tip	white/brown stripe	white/brown stripe
8	4	4	ring	brown solid	brown solid

Pins on plug face (socket is reversed)



SAFETY INFORMATION

Safeguards

- To reduce the risk of electric shock, do not expose this product to rain or moisture.
- If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.
- Do not modify the wall plug. Doing so will void the warranty and safety features.
- This equipment should be installed near the socket outlet and the device should be easily accesible in case it requires disconnection.

Precautions

- FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.
- In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.
- Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.
- Avoid excessive humidity, sudden temperature changes or temperature extremes.
- Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.
- Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.
- Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.
- Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-VGA180ASR. Opening the product will void the warranty.
- Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

WARRANTY

LIMITED ONE-YEAR WARRANTY

ATLONA by Lenexpo Electronics warrants only to the initial purchaser of this product for a period of one year from the date of purchase from an Authorized ATLONA Reseller, the product will be free of electrical and mechanical defects that materially affect the products operation as described in this users manual. Within this period, ATLONA will, at it's sole option, repair or replace any components, which fail of normal use or refund the net original price.

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